

Grade 7 State Standards

Mathematics Standards

Content Standard 1: Students can understand and apply a variety of math concepts.

Benchmark A: Students can understand and apply number properties and operations.

Grade Level Indicator: Represent, compare, and order numbers **Grade Level Indicator:** Describe and apply properties of numbers

Grade Level Indicator: Classify numbers by divisibility

Grade Level Indicator: Demonstrate ways of performing operations

Grade Level Indicator: Use place value; write numbers in standard, expanded, and expanded form

and exponential form

Grade Level Indicator: Use and interpret operational and relational symbols **Benchmark B:** Students can understand and apply concepts and procedures of algebra.

Grade Level Indicator: Solve equations and inequalities

Grade Level Indicator: Use variable expressions to model situations

Grade Level Indicator: Explore numerical patterns

Benchmark C: Students can understand and apply concepts of geometry.

Grade Level Indicator: Identify, classify, and compare geometric figures **Grade Level Indicator:** Describe geometric properties, patterns, and relationships

Grade Level Indicator: Apply the concepts of perimeter, area, and volume **Benchmark D:** Students can understand and apply concepts of measurement.

Grade Level Indicator: Measure length/distance, time, temperature, weight, mass, and volume

Grade Level Indicator: Estimate measurements with appropriate precision **Grade Level Indicator**: Identify and use appropriate units of measurement

Benchmark E: Students can understand and apply concepts in probability and statistics.

Grade Level Indicator: Apply probability concepts and counting rules **Grade Level Indicator**: Understand and apply measures of central tendency and variability

Content Standard 2: Students can understand and apply methods of estimation.

Benchmark A: Students can understand and apply concepts and procedures of standard rounding, order of magnitude, and number sense.

Grade Level Indicator: Use standard rounding to estimate Grade Level Indicator: Use order of magnitude to estimate Grade Level Indicator: Use number sense to estimate

Content Standard 3: Students can solve a variety of math problems.

Benchmark A: Students can solve math problems

Grade Level Indicator: Solve single-step and multiple-step math problems **Grade Level Indicator:** Identify extraneous or insufficient information in problems

Benchmark B: Students can understand and apply problem-solving approaches and procedures.

Grade Level Indicator: Choose a method for solving a problem

Content Standard 4: Students can interpret data presented in a variety of ways.

Benchmark A: Students can use tables and graphs to locate and read information.

Grade Level Indicator: Locate amounts in specific cells of a table

Benchmark B: Students can interpret data from a variety of sources.

Grade Level Indicator: Read amounts on scales of bar and line graphs **Grade Level Indicator:** Compare quantities to determine ranks, sums, or differences and to find ratios

Grade Level Indicator: Use tables and graphs to determine rates or identify trends, understand underlying or functional relationships, and generalize or draw conclusions

Performance Standards for Mathematics

High Performance Level: Understands math concepts, solves word problems, and interprets data from graphs and tables. Usually can use estimation methods.

Distinguished: Understands math concepts, solves word problems, and interprets data from graphs and tables. Usually can use estimation methods.

Accomplished: Understands math concepts, solves word problems, and interprets data from graphs and tables. Usually can use estimation methods.

Intermediate Performance Level: Usually can understand math concepts, solve word problems, and interpret data from graphs and tables. Sometimes is able to use estimation methods.

Skilled: Usually can understand math concepts, solve word problems, use estimation methods, and interpret data from graphs and tables.

Moderate: Sometimes can understand math concepts and use estimation methods. Usually is able to solve word problems and interpret data from graphs and tables.

Low Performance Level: Seldom can understand math concepts, solve word problems, or use estimation methods. Sometimes can interpret data from graphs or tables.

Marginal: Sometimes can understand math concepts, use estimation methods, and interpret data from graphs and tables. Seldom is able to solve word problems.

Weak: Seldom can understand math concepts or solve word problems. Rarely can use estimation methods or interpret data from graphs and tables.

Science Standards

Content Standard 1: Students can understand and apply skills used in scientific inquiry.

Benchmark A: Students can understand and apply the processes and skills of scientific inquiry.

Grade Level Indicator: Understand and apply the processes and skills of investigation

Benchmark B: Students can analyze and interpret scientific information.

Grade Level Indicator: Analyze and interpret information from scientific studies

Content Standard 2: Students can understand concepts and relationships in life science.

Benchmark A: Students can understand structures of living things.

Grade Level Indicator: Understand the structures of living things

Benchmark B: Students can understand life cycles.

Grade Level Indicator: Describe and understand life cycles

Benchmark C: Students can understand environmental interaction and adaptation.

Grade Level Indicator: Identify and explain the roles of environmental interactions and adaptations

Content Standard 3: Students can understand concepts and relationships in Earth/space sciences.

Benchmark A: Students can understand ideas about Earth's composition and structure.

Grade Level Indicator: Describe and understand Earth's composition and structure

Benchmark B: Students can understand changes in and around Earth.

Grade Level Indicator: Identify and explain changes in and around Earth

Benchmark C: Students can understand concepts relating to the universe.

Grade Level Indicator: Understand concepts and relationships of the universe

Content Standard 4: Students can understand concepts and relationships in physical science.

Benchmark A: Students can understand and apply concepts related to mechanics, forces, and motion.

Grade Level Indicator: Describe and explain concepts related to mechanics, forces, and motion

Benchmark B: Students can understand and apply the concept of energy.

Grade Level Indicator: Understand the concept of energy and its various forms

Benchmark C: Students can understand and identify properties and changes of matter.

Grade Level Indicator: Identify and explain the properties and changes of matter

Literacy Standards

Content Standard 1: Students can comprehend what they read in a variety of literary and informational texts.

Benchmark A: Students can understand stated information they have read.

Grade Level Indicator: Understand stated information

Benchmark B: Students can determine the meaning of new words from their context.

Grade Level Indicator: Determine the meaning of new words from their context

Benchmark C: Students can draw conclusions, make inferences, and deduce meaning.

Grade Level Indicator: Draw conclusions, make inferences, and deduce meaning

Benchmark D: Students can infer traits, feelings, and motives of characters.

Grade Level Indicator: Infer traits, feelings, and motives of characters

Benchmark E: Students can interpret information in new contexts.

Grade Level Indicator: Interpret information in new contexts

Benchmark F: Students can interpret nonliteral language used in a text.

Grade Level Indicator: Interpret nonliteral language

Benchmark G: Students can determine the main idea of a text.

Grade Level Indicator: Determine the main idea of a text

Benchmark H: Students can identify the writer's views or purpose.

Grade Level Indicator: Identify the author's views or purpose

Benchmark I: Students can analyze style or structure.

Grade Level Indicator: Analyze the style or structure of a text

Performance Standards for Literacy

High Performance Level: Understands factual information and new words in context, is able to make inferences, can interpret non-literal language and information in new contexts. Can determine a selection's main ideas and analyze its style and structure.

Distinguished: Understands factual information and new words in context. Can make inferences and interpret either non-literal language or information in new contexts. Can determine a selection's main ideas and analyze its style and structure.

Accomplished: Usually understands factual information and new words in context. Can make inferences and interpret either non-literal language or information in new contexts. Can determine a selection's main ideas and analyze its style and structure.

Intermediate Performance Level: Usually understands factual information and new words in context. Often is able to make inferences and interpret either non-literal language or information in new contexts. Sometimes can determine a selection's main ideas or analyze its style and structure.

Skilled: Usually understands factual information and new words in context. Often can make inferences and interpret either non-literal language or information in new contexts. Usually can determine a selection's main ideas and analyze its style and structure.

Moderate: Usually understands factual information and new words in context. Sometimes is able to make inferences and interpret either non-literal language or information in new contexts. Sometimes can determine a selection's main ideas and analyze its style and structure.

Low Performance Level: Seldom understands factual information or new words in context. Rarely is able to make inferences and interpret either non-literal language or information in new contexts. Seldom can determine a selection's main ideas or analyze its style and structure.

Marginal: Seldom understands factual information or new words in context. Sometimes is able to make inferences and interpret either non-literal language or information in new contexts. Sometimes can determine a selection's main ideas and analyze aspects of its style and structure.

Weak: Seldom understands factual information or new words in context. Rarely is able to make inferences or to interpret either non-literal language or information in new contexts. Seldom can determine a selection's main ideas or analyze aspects of its style and structure.